

Amendments to the Claims:

1. (Currently Amended) A method for detecting gabapentinoid activity in ~~test~~ a test compound comprising the steps of:
 - (a) introducing into host cells that express an NK receptor a heterologous DNA sequence that encodes a reporter polypeptide which responds to Erk-2 activation;
 - (b) separating the host cells into at least two groups, a first group and a second group;
 - (c) treating the first group of host cells with a test compound that binds to the $\alpha_2\delta$ subunit of a calcium channel;
 - (d) treating the first group and second group of host cells with an NK receptor agonist;
 - (e) determining reporter polypeptide activity in the first group and in the second group; and
 - (f) comparing reporter polypeptide activity from the first group to the second group; and
 - (g) identifying as a gabapentinoid, a test compound that shows greater inhibition of said reporter polypeptide activity in said first group of step f) than said reporter polypeptide activity of said second group in step f).
2. (Original) The method of Claim 1, wherein the host cells are Chinese hamster ovary (CHO) cells.
3. (Original) The method of Claim 1, wherein the heterologous DNA sequence encodes luciferase.
4. (Cancelled).
5. (Previously Amended) The method of Claim 1, wherein in the NK receptor agonist is substance P.
6. (Previously Amended) The method of Claim 1, wherein step (b) comprises the step of separating the host cells into a plurality of groups, and step (c) comprises treating each separate group with a compound having a final concentration of between 1 μ M and 1 mM.

Claims 7-9 (Cancelled).

10. (Previously Amended) The method of Claim 1, wherein step (d) occurs prior to step (c).

Claims 11-18 (Cancelled).

19. (Currently Amended) A method for detecting gabapentinoid activity in ~~test~~ a test compound comprising the steps of:

- (a) introducing into host cells that express an NK1 receptor a heterologous DNA sequence that encodes a reporter polypeptide which responds to Erk-2 activation;
- (b) separating the host cells into at least two groups, a first group and a second group;
- (c) treating the first group of host cells with a test compound that binds to the $\alpha_2\delta$ subunit of a calcium channel;
- (d) treating the first group and second group of host cells with an NK receptor agonist;
- (e) determining reporter polypeptide activity in the first group and in the second group; and
- (f) comparing reporter polypeptide activity from the first group to the second group; and
- (g) identifying as a gabapentinoid, a test compound that greater inhibition of said reporter polypeptide activity in said first group of step f) than said reporter polypeptide activity of said second group in step f).

20. (Previously Added) A method for detecting gabapentinoid activity in ~~target~~ a target compound comprising the step of:

- (a) introducing into host cells that express an NK receptor a heterologous DNA sequence that encodes a reporter polypeptide which responds to Erk-2 activation;
- (b) separating the host cells into at least two groups, a first group and a second group;
- (c) treating the first group of host cells with a target compound;
- (d) treating the first group and second group of host cells with an NK receptor agonist;
- (e) determining reporter polypeptide activity in the first group and in the second group;
- (f) comparing reporter polypeptide activity from the first group to the second group;

23. (Previously Added) The method of claim 1 wherein said test compound of step g) shows, at 500 μ M, at least 30% greater inhibition of said reporter polypeptide activity in said first group of step f) than said reporter polypeptide activity of said second group in step f).